CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ADDENDUM NO. 2 TO ORDER NO. 93-03

WASTE DISCHARGE REQUIREMENTS
FOR THE
SAN VICENTE TREATMENT PLANT
RAMONA MUNICIPAL WATER DISTRICT
SAN DIEGO COUNTY

The California Regional Water Quality Control Board, San Diego Region (hereinafter Regional Board), finds that:

1. On February 1, 1993 this Regional Board adopted Order No. 93-03, **Waste Discharge Requirements for the San Vicente Treatment Plant, Ramona Municipal Water District, San Diego County.** Order No. 93-03 and addenda thereto established requirements for the discharge of up to 0.60 million gallons per day (MGD) treated wastewater via spray irrigation adjacent to the treatment plant. The Order also established requirements for the discharge of reclaimed water to Solk Ranch for irrigation of avocado groves.

2. Order No. 93-03 established the following effluent limitations for the San Vicente Treatment Plant:

EFFLUENT LIMITATIONS				
Constituent	Unit	30-day Average[1]	Daily Maximum[2]	12-Month Average[3]
Biochemical Oxygen Demand (BOD_5 @ 20° C)	mg/l	30	45	
Total Suspended Solids	mg/l	30	45	
pH	Within the limits of 6.0 to 9.0 at all times			
Total Dissolved Solids	mg/l		600	**
Chloride	mg/l		250	**
Manganese	mg/l		0.06	0.05
Iron	mg/l		0.4	0.3
Boron	mg/l		0.6	0.5
Coliform	MPN/100ml	*	*	
Turbidity	NTU	*	*	

1 The 30-day average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during any 30 day consecutive calendar day period.

2 The daily maximum effluent limitation shall apply to the results of a single composite or grab sample.

3 The 12-month average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during the previous 12 months.

* Effluent used for irrigation purposes shall conform with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**) in its present form or as it may be amended.

** Not to exceed the 12-month running average concentration found in the potable water supplies distributed by the District for use in the San Diego Country Estates development. Compliance with this effluent limitation for any month shall be determined by the monthly average of the effluent compared to the average of the water supply results of the 12 previous months.

3. On September 28, 1994, Mr. Kevin Walsh, General Manager of Ramona Municipal Water District, hereinafter discharger, submitted a report of waste discharge (RWD) requesting an increase in flow limit up to 0.75 MGD and a relaxation of the total dissolved solids (TDS) effluent limitation to 750 milligrams per liter (mg/l) or 300 mg/l above the potable water supplies. In addition, the District requested that the chloride effluent limitation be relaxed to a 12-month average of 250 mg/l.

4. The San Vicente Treatment Plant and Solk Ranch are located in the Gower Hydrologic Subarea. The Basin Plan established the following water quality objectives for the Gower Hydrologic Subarea:

Basin Plan Water Quality Objectives		
CONSTITUENT	Concentration not to be exceeded more than 10 percent of the time during any one year period. (mg/l or as noted)	
	Gower Hydrologic Subarea (907.23)	
	Surface Water	**Groundwater**
Total Dissolved Solids	300	600
Chloride	50	250
Percent Sodium	60%	60%
Sulfate	65	250
Nitrate (as NO_3)	----	5
Nitrogen and Phosphorus	*	----
Iron	0.3	0.3
Manganese	0.05	0.05
Methylene Blue Active Substances (MBAS)	0.5	0.5
Boron	1.0	0.5
Odor	None	None
Turbidity	20 NTU	5 NTU
Color	20 Units	15 Units
Fluoride	1.0	1.0

* Concentrations of nitrogen and phosphorus, by themselves or in combination with other nutrients, shall be maintained at levels below those which stimulate algae and emergent plant growth. Threshold total phosphorus (P) concentrations shall not exceed 0.05 mg/l in any stream at the point where it enters any reservoir or lake, nor 0.025 mg/l in any reservoir or lake. A desired goal in flowing waters appears to be 0.1 mg/l total P. These values are not to be exceeded more than 10% of the time unless studies of the specific water body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds, however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1 shall be used.

5. The RWD noted in Finding No. 3 did not contain sufficient technical information to conclude that the proposed effluent limits would be consistent with the Basin Plan. The Basin Plan specifies that the Regional Board shall establish effluent limitations at levels that are no less than the quality of the area's water supply, but no greater than the Basin Plan ground water objective. This Addendum establishes a 12-month running average of 600 mg/l for TDS and 250 mg/l for chloride, which are consistent with the Basin Plan.

6. The Ramona Municipal Water District has approved a Negative Declaration on July 11, 1989, for an increase in flow up to 0.75 MGD in accordance with the California Environmental Quality Act (Public Resources Code Section 21000, et seq.). The project as approved by the Ramona Municipal Water District will not have a significant effect on water quality.

7. The Regional Board has considered all water resources related environmental factors associated with the proposed modification of waste discharge requirements.

8. The Regional Board has notified the Ramona Municipal Water District and all known interested parties of the intent to modify the waste discharge requirements for the San Vicente Treatment Plant.

9. The Regional Board in a public meeting heard and considered all comments pertaining to the proposed modification of waste discharge requirements.

IT IS HEREBY ORDERED, That:

1. Prohibition A.5 is replaced as follows:

    5. A 30-day average flowrate from the San Vicente Treatment Plant in excess of 0.75 MGD is prohibited unless the discharger obtains revised waste discharge requirements for the proposed increased flow.

2. Discharge Specification B.1 is replaced as follows:

1. The discharge for landscape irrigation and other land disposal projects of a tertiary treated effluent containing pollutants in excess of the following effluent limitations is prohibited:

EFFLUENT LIMITATIONS				
Constituent	Unit	30-day Average[1]	Daily Maximum[2]	12-Month Average[3]
Biochemical Oxygen Demand (BOD_5 @ 20° C)	mg/l	30	45	
Total Suspended Solids	mg/l	30	45	
pH	Within the limits of 6.0 to 9.0 at all times			
Total Dissolved Solids	mg/l		650	600
Chloride	mg/l		275	250
Manganese	mg/l		0.06	0.05
Iron	mg/l		0.4	0.3
Boron	mg/l		0.6	0.5
Coliform	MPN/100ml	*	*	
Turbidity	NTU	*	*	

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2 The daily maximum effluent limitation shall apply to the results of a single composite or grab sample.

3 The 12-month average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during the previous 12 months.

* Effluent used for irrigation purposes shall conform with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**) in its present form or as it may be amended.

3. The following shall be inserted as Provision C.15:

15. All waste water treatment, storage and disposal facilities shall be completely constructed and operable prior to an increase in the 30-day average wastewater flow rate in excess of 0.60 MGD, and the complete facilities shall have adequate capacity for the full design flow of 0.75 MGD. A report from the design engineer certifying the adequacy of each component of the treatment, storage and disposal facilities shall be submitted by the discharger at least 120 days prior to flows at the San Vicente Treatment Plant exceeding 0.60 MGD. The certification report shall contain a requirement-by-requirement analysis based on acceptable engineering practices, of how the process and physical designs of the facilities will ensure compliance with the waste discharge requirements. The design engineer shall affix his signature and engineering license number to the certification report and should submit it prior to construction of the facilities. The increase in the discharge flow shall not be initiated until:

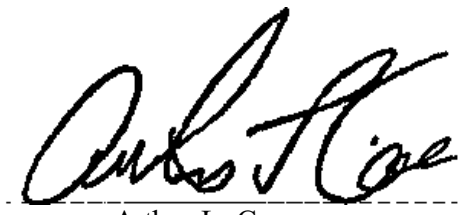
a. The certification report is received by the Regional Board Executive Officer;

b. The Regional Board Executive Officer has been notified of the completion of facilities by the discharger;

c. An inspection of the facilities has been made by staff of the Regional Board; and

d. The Regional Board Executive Officer has notified the discharger by letter that the discharge can be initiated.

I, Arthur L. Coe, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Addendum adopted by the California Regional Water Quality Control Board, San Diego Region, on June 8, 1995.



Arthur L. Coe
Executive Officer

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